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Radion Stabilization with Bulk Fields

Monday 8 May 2023 15:15 (15 minutes)

The Randall-Sundrum model has been a great source of interest to theorists
and phenomenologists for over two decades, both for its novel solution to the hierarchy problem, and its phenomenological consequences. The modulus field associated with the warped extra dimension of this model requires stabilization. In this talk I will present ongoing work to investigate the feasibility of stabilizing the fifth dimension of the RS model using alternate mechanisms to the standard Goldberger-Wise scenario. I will also discuss how the rate of the phase transition between the high and low temperature phases of the RS model is affected by the specific details of the radion stabilization mechanism.

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